

# Amruthbalu M

Software Engineer

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## WORK EXPERIENCE

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### KPMG Global Services

Associate Consultant

October 2024 - Present

Built a comprehensive solution utilizing Spring Boot, RESTful Web services, and microservices architecture to map suppliers with buyers within the supply chain management module. This approach significantly improved scalability and modularity while achieving a 50% reduction in manual testing efforts and 20% increase in process efficiency.

Developed an end-to-end automation framework using Playwright Java for global clients in Oracle ERP and SCM domains, implementing best practices to significantly reduce manual testing effort by over 60% and increasing test coverage by 40%.

Analyst

November 2022 - October 2024

Played crucial role in implementing automation framework and test suites for 3000+ test cases using Opkey automation, covering multiple platforms such as Workday, Oracle, and Microsoft Dynamics across ERP, SCM, HCM, and EPM modules.

Additionally, designed solutions/POC's on top of the automation framework to streamline repetitive tasks such as report generation, data import, and export, significantly reducing manual effort.

## EDUCATION

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### Bapuji Institute of Engineering and Technology

Major in Electronics and Communication Engineering

July 2018 - August 2022

## PROJECTS

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### Supplier Buyer Mapping Tool using Spring Boot

Developed a Spring Boot application with a dynamic PostgreSQL database, incorporating a matching algorithm and integrating multiple microservices using RESTful Web Services. Implemented a matching service algorithm along with controller and model layers and established one-to-one mapping of buyers and suppliers based on industries

### Powered Test Automation Development

Designed and built comprehensive automation test suites for Oracle ERP, Finance, and HCM domains, effectively serving a diverse range of global clients primarily within the retail sector. Leveraged powerful Java-based automation tools such as Playwright and Opkey to ensure rigorous and efficient testing processes.

Created automation test cases that encompass integration tests, unit tests, and intricate end-to-end business scenarios. Incorporated over 1000 reusable libraries into the automation framework, ensuring optimal reusability, adherence to industry best practices, and significant reduction in manual effort, ultimately enhancing overall test coverage and reliability.

### Automation Solutions

Engineered an automated solution for FBDI (File Based Data Import) within the Oracle ERP application, enhancing efficiency and reducing effort by over 40% during CRP events.

Built an automated framework for the scheduled processes module in Oracle ERP, enabling automatic extraction of a large number of reports and significantly enhancing efficiency.

Innovatively implemented a single reusable code for the Data Management module to facilitate package imports into the Microsoft Dynamics application.

## SKILLS

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**Programming Languages:** Core Java, SQL, Python, Oracle ERP

**Frameworks:** Java Spring Boot, React.js

**Database/Cloud:** PostgreSQL, Azure Fundamentals

**Certification:** ISTQB Certified